



3LD3 switch disconnecter, Iu 63 A main switch 3-pole rated operational power at AC-23 A at 400 V 22.0 kW front plate mounting basic switch with center-hole mounting 22.5 mm knob-operated mechanism red/yellow 48x48 mm with auxiliary switches 1 NO + 1 NC

Model	
product brand name	SENTRON
product designation	Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
design of the actuating element	selector switch
color of the actuating element	red
design of handle	knob-operated mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
number of poles note	3
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
operating frequency maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage rated value	690 V
surge voltage resistance rated value	6 kV
operating voltage	
• at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP on the front	IP65
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A

<ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>	43 A
<b>operating power</b>	
<ul style="list-style-type: none"> <li>at AC-23 A at 240 V rated value</li> </ul>	11 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>	22 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 440 V rated value</li> </ul>	22 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 690 V rated value</li> </ul>	19 kW
<ul style="list-style-type: none"> <li>at AC-3 at 240 V rated value</li> </ul>	11 kW
<ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>	19 kW
<ul style="list-style-type: none"> <li>at AC-3 at 690 V rated value</li> </ul>	15 kW

<b>Auxiliary circuit</b>	
number of CO contacts for auxiliary contacts	0
<b>number of NC contacts for auxiliary contacts</b>	1
<b>number of NO contacts for auxiliary contacts</b>	1
<b>operating voltage of auxiliary contacts at AC maximum</b>	500 V
<b>continuous current of the auxiliary contact rated value</b>	10 A
insulation voltage of the auxiliary switch rated value	500 V

<b>Suitability</b>	
<b>suitability for use main switch</b>	Yes
<b>suitability for use switch disconnecter</b>	Yes
<b>suitability for use EMERGENCY OFF switch</b>	Yes
<b>suitability for use safety switch</b>	Yes
<b>suitability for use maintenance/repair switch</b>	Yes

<b>Product details</b>	
<b>special product feature</b>	Can be locked in zero position
<b>product feature can be locked into OFF position</b>	Yes

<b>Accessories</b>	
<b>product extension optional</b>	
<ul style="list-style-type: none"> <li>motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>voltage trigger</li> </ul>	No
<b>number of connectable NC contacts for auxiliary contacts attachable maximum</b>	2
<b>number of connectable NO contacts for auxiliary contacts attachable maximum</b>	4
<b>number of connectable CO contacts for auxiliary contacts attachable maximum</b>	0
<b>number of bracket locks maximum</b>	2
<b>hasp thickness of the bracket locks</b>	4 ... 6 mm

<b>Short circuit</b>	
<b>conditional short-circuit current with line-side fuse protection</b>	
<ul style="list-style-type: none"> <li>at 440 V by gG fuse rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>at 690 V by gG fuse rated value</li> </ul>	6 kA
<b>let-through current with closed switch</b>	
<ul style="list-style-type: none"> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	6 kA
<b>I<sub>2t</sub> value with closed switch</b>	
<ul style="list-style-type: none"> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	21 kA <sup>2</sup> .s
<ul style="list-style-type: none"> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	21 kA <sup>2</sup> .s
<ul style="list-style-type: none"> <li>at 690 V for combination switch + gG fuse maximum</li> </ul>	21 kA <sup>2</sup> .s
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 63 A
<ul style="list-style-type: none"> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
<b>operational current of upstream fuse rated value</b>	63 A

<b>according UL</b>	
<b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>	63 A
<b>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</b>	600 V
<b>active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value</b>	25
<b>active power [hp] at AC at 600 V according to UL 508/UL</b>	30

60947-4-1 rated value	
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5

#### Connections

AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm <sup>2</sup> )
• finely stranded with core end processing	1x (2.5...16 mm <sup>2</sup> )
• stranded	1x (2.5 to 16 mm <sup>2</sup> )
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>
• finely stranded with core end processing	2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup>
• stranded	2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>
type of electrical connection	
• for main current circuit	box terminal
• for auxiliary contacts	Box terminals

#### Mechanical Design

height	60 mm
width	47 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	Yes
• rail mounting	No
Net Weight	218 g

#### Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C

#### Approvals Certificates

General Product Approval	other
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other	Environment
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[Confirmation](#)

[Environmental Con-  
firmations](#)

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#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

[Information- and Downloadcenter \(Catalogs, Brochures,...\)](#)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3450-1TK13>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3450-1TK13>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

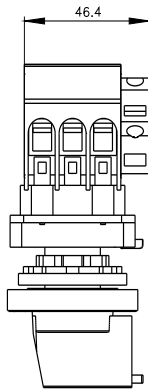
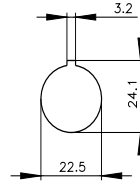
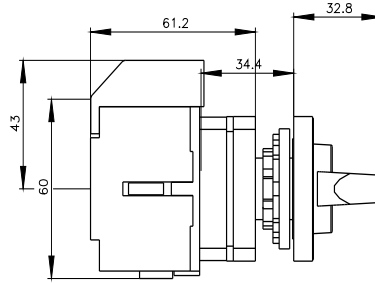
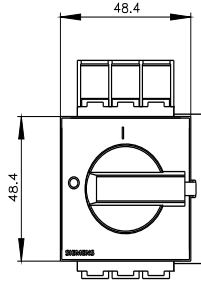
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CAX-Online-Generator

<https://www.siemens.com/cax>

Tender specifications

<https://www.siemens.com/specifications>



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